

To: Wands, James[James.Wands@hdrinc.com]; Naranjo, Eugenia[Naranjo.Eugenia@epa.gov]
Cc: Garland, Edward[Edward.Garland@hdrinc.com]
From: Clifford Firstenberg
Sent: Tue 3/25/2014 4:06:36 PM
Subject: RE: FFS models transfer to Tierra
[removed.txt](#)

Thanks very much, James. I appreciate you sending this, and, especially, the advice and index. I'll let you know if we need any assistance.

I'm doing well...anxiously awaiting the release of the FFS J. How are you – taking breath during this interim period?

Thanks

Cliff

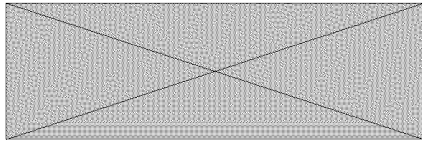
Clifford E. Firstenberg
Environmental Sciences Manager
Tierra Solutions, Inc.

E-mail: Clifford.Firstenberg@tierra-inc.com

Phone: 757-258-7720

FAX: 757-258-7720 (during business hours, call first)

Cell: 757-206-6281



CONFIDENTIALITY NOTICE.....

The information in this email may be confidential and/or privileged. This email is intended to be reviewed by only the individual or organization named above. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system.

Thank You.

From: Wands, James [mailto:James.Wands@hdrinc.com]
Sent: Tuesday, March 25, 2014 9:45 AM
To: Clifford Firstenberg; Naranjo, Eugenia
Cc: Garland, Edward
Subject: RE: FFS models transfer to Tierra

Cliff,

How have you been?

Your hard drives are on the way and should arrive today via UPS
(http://wwwapps.ups.com/WebTracking/track?HTMLVersion=5.0&loc=en_US&Requester=UP_SHome&WBPM_lid=homepage%2Fct1.html_pnl_trk&trackNums=1Z09YY411393334174%0D%0A%0D%0A&track.x=Track).

The first drive (4TB drive, Blue) has the hydrodynamic and sediment transport code, inputs and outputs on it, the second drive (2TB drive, Western Digital) has the carbon and fate and transport

model codes, inputs and outputs on it.

Please note that the models were run across an array of servers so paths in the run scripts point to various locations and will have to be edited in order to run the scripts. Some of the scripts have been edited so that they point to the relative path to the appropriate files on the transfer drives.

If you have any questions let us know.

The contents of the disks are listed here:

- Hydrodynamics & Sediment Transport (4TB Drive, the blue one)
- o TRANSFER_TO_TIERRA
- § SEDTRAN
- CODE = CODE
- INPUTS = INPUTS
- Eight runs, script used for runs = xqtrun, located in each directory
- o RUN229_SHALLOW (1996-2012)
- o RUN229_DEEP (1996-2010 forcing cycled for 2013-2027, 2028-2042, 2043-2057, 2058-2059)
- o RUN233_DREM_DRE (Deep Dredging, active remedy, 2001-2010, 1996-1997 forcing, run for 2018-2029)
- o RUN229_POST_DRE_CORR (Deep Dredging, post remedy, 1998-2010, 1996-1997 forcing, cycled for 2030-2044, 2045-2059)
- o RUN233_DREM_CAP (Capping with Dredging, active remedy, 2001-2010, 1996-1997 forcing, run for 2018-2029)
- o RUN229_POST_CAP_CORR (Capping with Dredging, post remedy, 1998-2010, 1996-1997 forcing, cycled for 2030-2044, 2045-2059)

- o RUN233_DREM_FOC (Focused Capping with Dredging, active remedy, 2001-2010, 1996-1997 forcing, run for 2018-2029)
- o RUN229_POST_FOC_CAP_CORR (Focused Capping with Dredging, post remedy, 1998-2010, 1996-1997 forcing, cycled for 2030-2044, 2045-2059)

§ ECOM-COLL-PRR

- Collapsed hydrodynamic and sediment transport files
- o Script `rw_yrly_gcmsedtran.sh` generates collapsed files
- o One directory for each of the eight runs above. The directory name is the same with “_COLL” appended to the end.
- Carbon & RCATOX (2TB Drive)
- o TRANSFER_TO_TIERRA

§ ST-SWEM-PASS-COLL-PRR

- CODE20130820 = CODE
- INPUTS = Carbon inputs
- RUN-PROJECTION-MNR-PRR (Alternative 1, No-Action, 1996-2059, script = `run-lpr-mnr-prr`)
- RUN-PROJECTION-DRG-PRR (Alternative 2, Deep Dredging, 2018-2059, script = `run-lpr-drg-prr`)
- RUN-PROJECTION-CAP-PRR (Alternative 3, Capping with Dredging, 2018-2059, script = `run-lpr-cap-prr`)
- RUN-PROJECTION-FOC-PRR (Alternative 4, Focused Capping with Dredging, 2018-2059, script = `run-lpr-foc-prr`)

§ RCATOX-PASS-COLL-PRR

- CODE20130820-STACK = CODE
- One directory for each of the nine contaminant groups simulated
- o DIOXIN1 (2378-TCDD, 123478-HxCDD, 123678-HxCDD, 123789-HxCDD, 1234678-HpCDD, OCDD)

§ INPUTS = DIOXIN1 inputs

§ RUN-PROJECTION-MNRGRRCH-PRR (Alternative 1, No-Action, 1996-2059, script = run-lpr-mnrgrh-prr)

§ RUN-PROJECTION-DRGGRRCH-PRR (Alternative 2, Deep Dredging, 2018-2059, script = run-lpr-drggrh-prr)

§ RUN-PROJECTION-CAPGRRCH-PRR (Alternative 3, Capping with Dredging, 2018-2059, script = run-lpr-capgrh-prr)

§ RUN-PROJECTION-FOCGRRCH-PRR (Alternative 4, Focused Capping with Dredging, 2018-2059, script = run-lpr-focgrh-prr)

- o DIOXIN2 (12378-PeCDD, 12378-PeCDF, 123789-HxCDF, 234678-HxCDF, 1234789-HpCDF)

§ Same structure as DIOXIN1

- o DIOXIN3 (2378-TCDF, 23478-PeCDF, 123478-HxCDF, 123678-HxCDF, 1234678-HpCDF, OCDF)

§ Same structure as DIOXIN1

- o PCB (Di-PCB, Tri-PCB, Tetra-PCB, Penta-PCB, Hexa-PCB)

§ Same structure as DIOXIN1

- o PCB2 (Mono-PCB, Hepta-PCB, Octa-PCB, Nona-PCB, Deca-PCB)

§ Same structure as DIOXIN1

- o PCB-TEF1 (BZ#77, BZ#81, BZ#105, BZ#114, BZ#118, BZ#123)

§ Same structure as DIOXIN1

- o PCB-TEF2 (BZ#126, BZ#156, BZ#157, BZ#167, BZ#169, BZ#189)

§ Same structure as DIOXIN1

- o PEST1 (2,4'-DDD, 2,4'-DDE, 2,4'-DDT, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT)

§ Same structure as DIOXIN1

- o METALS (Cadmium, Mercury, Methylmercury)

§ Same structure as DIOXIN1

Regards,

James

James Wands, PE

HDR

Senior Water Quality Modeler

Professional Associate

1200 MacArthur Blvd | Mahwah, NJ 07430

201.529.5151 | f: 201.529.5728

james.wands@hdrinc.com | hdrinc.com

Follow Us – [Facebook](#) | [Twitter](#) | [YouTube](#)

-----Original Message-----

From: Clifford Firstenberg [mailto:Clifford.Firstenberg@tierra-inc.com]

Sent: Monday, March 24, 2014 8:06 AM

To: Naranjo, Eugenia

Cc: Wands, James

Subject: RE: FFS models transfer to Tierra

Please ship to me at the following address - and, please do not require a signature. If I'm out of the office or on a call and can't get to the door, FEDEX/UPS will not leave the package. But please let me know when to expect the delivery (or use the email tracking feature). THANKS!

16 Ensigne Spence

Williamsburg, VA 23185

757-258-7720

Clifford E. Firstenberg

Environmental Sciences Manager

Tierra Solutions, Inc.

E-mail: Clifford.Firstenberg@tierra-inc.com

Phone: 757-258-7720

FAX: 757-258-7720 (during business hours, call first)

Cell: 757-206-6281

CONFIDENTIALITY NOTICE.....

The information in this email may be confidential and/or privileged. This email is intended to be reviewed by only the individual or organization named above. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system.

Thank You.

-----Original Message-----

From: Clifford Firstenberg

Sent: Monday, March 24, 2014 6:40 AM

To: 'Naranjo, Eugenia'

Cc: James Wands

Subject: RE: FFS models transfer to Tierra

I'll let you know later today.

Thx

Cliff

Clifford E. Firstenberg

Environmental Sciences Manager

Tierra Solutions, Inc.

E-mail: Clifford.Firstenberg@tierra-inc.com

Phone: 757-258-7720

FAX: 757-258-7720 (during business hours, call first)

Cell: 757-206-6281

CONFIDENTIALITY NOTICE.....

The information in this email may be confidential and/or privileged. This email is intended to be reviewed by only the individual or organization named above. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system.

Thank You.

-----Original Message-----

From: Naranjo, Eugenia [<mailto:Naranjo.Eugenia@epa.gov>]

Sent: Sunday, March 23, 2014 8:30 PM

To: Clifford Firstenberg

Cc: James Wands

Subject: FFS models transfer to Tierra

Hi Cliff,

HydroQual is ready to ship the hard drives with the FFS models to Tierra -tomorrow Monday.
Can you let James know the exact address of where he should be shipping the stuff?

Thanks,

eugenia